

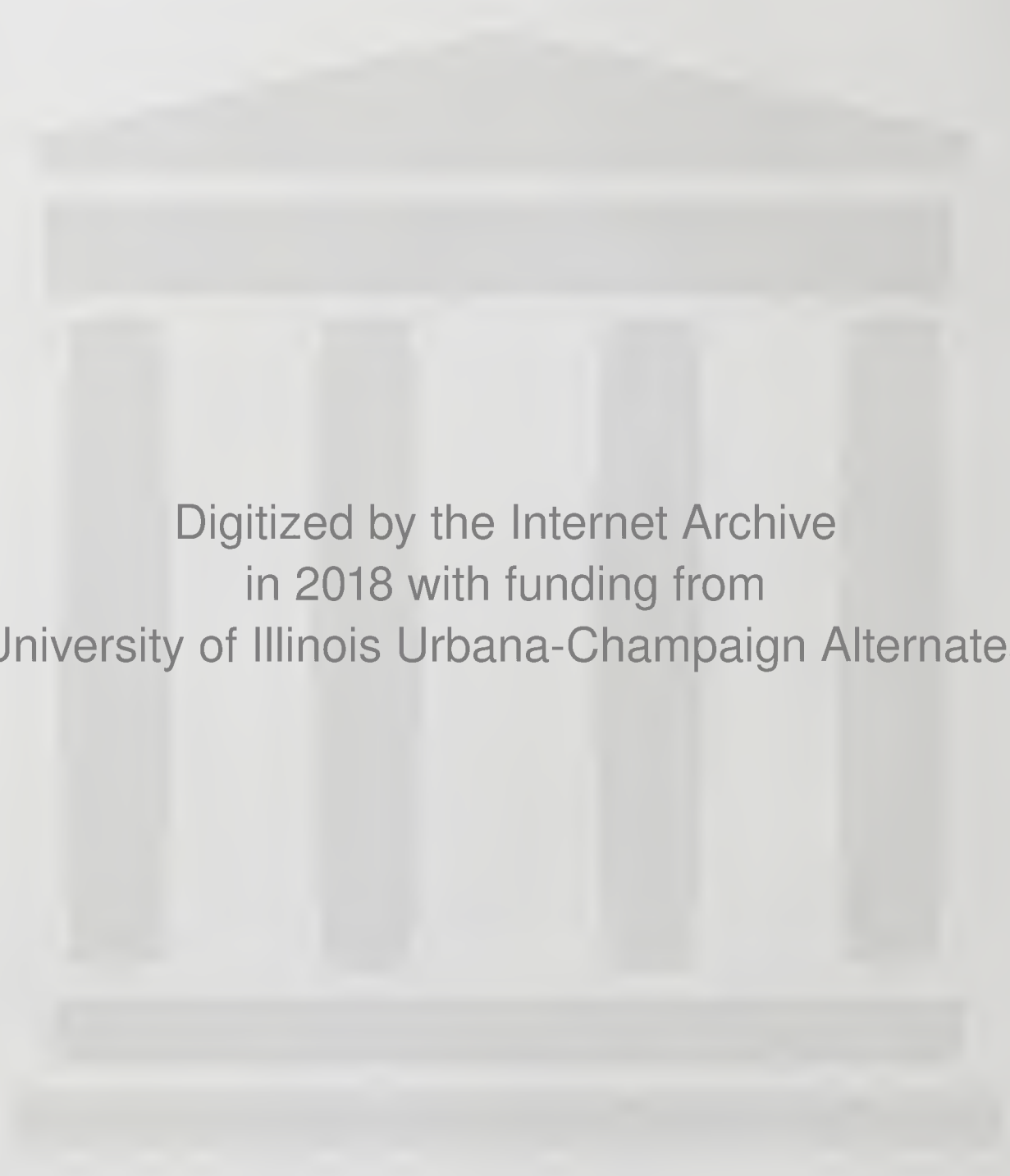
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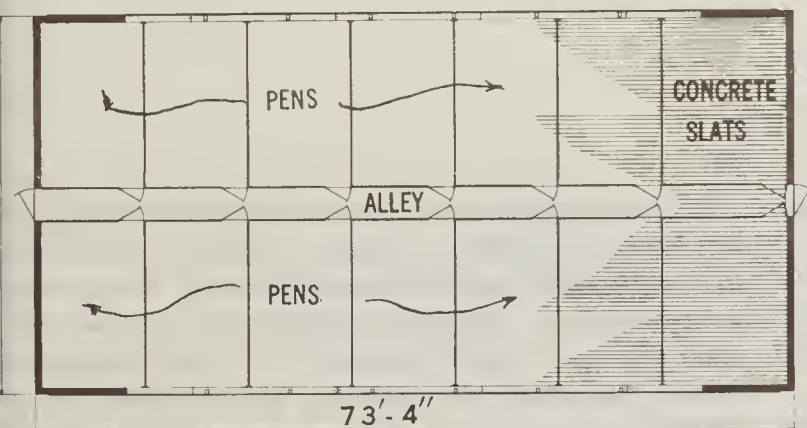
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FINISHING FLOOR for 400 pigs



The most profitable use of farm labor in raising swine is in the farrowing house and with sow herds. This finishing floor for 400 pigs will free labor for these tasks. The plans were designed at Virginia Polytechnic Institute, Blacksburg, Va., as a 400-head unit for use in conjunction with a farrowing-house operation on a 2-month farrowing schedule.

Pigs are brought to the finishing floor directly from the farrowing house. The pens are divided into two sections, one for younger pigs and one for finishing pigs from 110 pounds to 150 pounds. Approximately 40 pigs are placed in each pen. At 110 to 120 pounds, the pigs are split into two groups, and 20 pigs are placed in each finishing pen.

The building is of masonry-and-post-type construction and can be expanded in multiples of 10 feet. General features of construction are shown on the working drawings. Details are left to the discretion of the builder.

The use of commercially fabricated roof trusses, which are available in many areas, is suggested. The trusses must adequately support the roof structure, the ceiling, and the wind and snow loads that may be expected in the area where the building is erected. The metal roofing, over purlins spaced 24 inches on center, must be rigid enough to carry these loads.

Because some structural modification may be required in localities subject to heavy snows or high winds, consult your county extension agricultural agent or State

Washington, D.C.

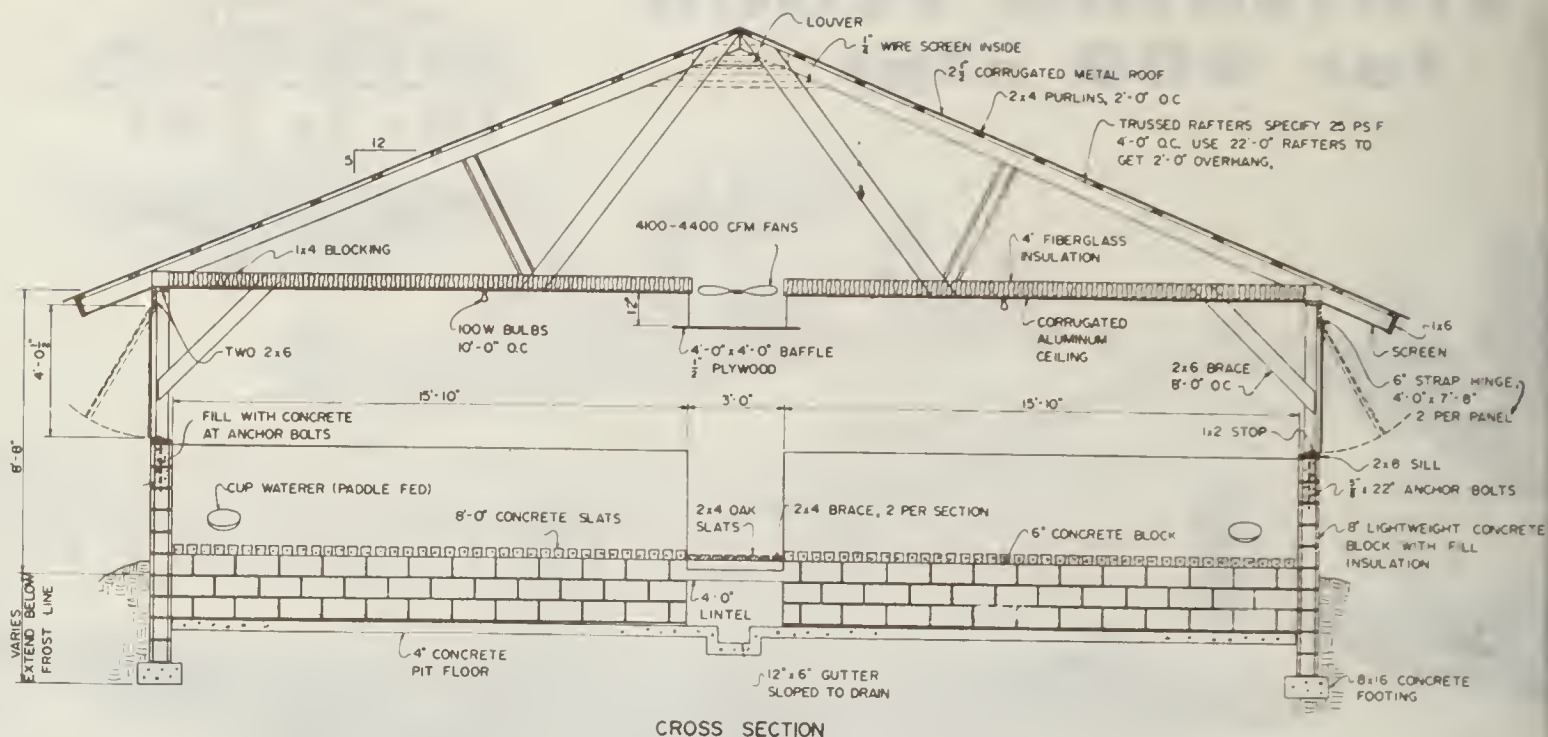
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extension agricultural engineer for advice before starting construction.

The house features totally slotted floors and fan ventilation. Insulation is provided in the ceiling and panels. This house should be used with automatic feeders and the pits connected to a lagoon.

The ventilation system is unique, in that air is pulled from the attic year round. Calculations show that it is possible to get a 2° to 3° F. temperature rise in summer because of the heat load from the roof. However, this ventilation system was still desirable, because of its automatic operation. The insulated panels could be raised during summer, and adequate circulation would still be achieved.

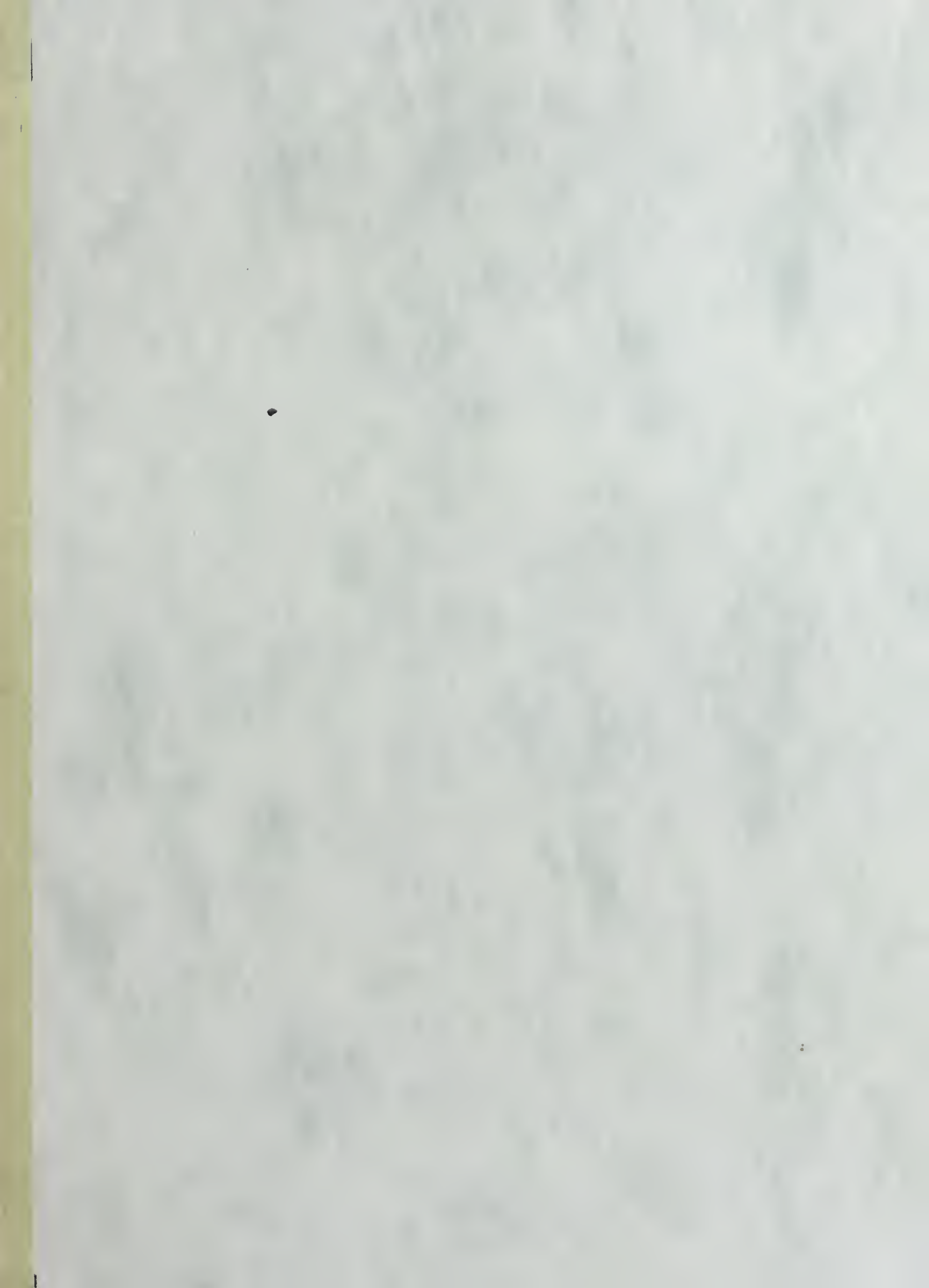
Automatic sprinklers are recommended with this system to provide some evaporative cooling. To prevent recirculation, it is recommended that the two fans not being used for cold-weather operation be closed by pushing the baffle against the ceiling.

A finishing floor built to the specifications of this plan has been constructed in eastern Virginia and has been in operation for approximately 8 months. Excellent results have been obtained in growth rate and feed efficiency. Temperatures in excess of 50° F. were maintained during the winter. No cleaning was required, except when a pen was emptied to prepare for the next group of pigs.

Working drawings may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university.

ORDER PLAN No. 6104, FINISHING FLOOR FOR 400 PIGS.



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